CLAIMS

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- 1. An industrial robot for moving an object in space comprising a stationary platform (3), a movable platform (31) adapted for supporting the object, and a first (A), a second (B) and a third (C) arm to which the platforms are joined, wherein the first arm comprises a first actuator (10), a first supporting arm (13) influenced by the first actuator and rotatable around a first axis, and a first 10 linkage (16, 17), the second arm comprises a second actuator (11), a second supporting arm (14) influenced by the second actuator and rotatable around a second axis, and a second linkage (18, 19), and the third arm comprises a third actuator (12), a third supporting arm (15) influenced by the third actuator and rotatable around a third axis, 15 and a third linkage (20, 21), characterized in that the first and third axes are arranged parallel and that the second supporting arm is freely journalled around a transverse axis that is substantially arranged in a plane normal 20 to the second axis.
 - 2. An industrial robot according to claim 1, characterized in that the second supporting arm comprises a bearing (12A) and is adapted to rotate in a plane intersecting the movable platform.
 - 3. An industrial robot according to claim 1 or 2, characterized in that the first and third linkages comprise a triangle with the base journalled in the respective supporting arm.
 - 4. An industrial robot according any of the preceding claims, characterized in that the third linkage comprises a triangle where the base is journalled in the movable platform.

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- 5. An industrial robot according claims 1 to 3, characterized in that the third linkage comprises a locked double link.
- 6. An industrial robot for moving an object in space comprising a stationary platform, a movable platform adapted for supporting the object, and a first, a second and a third arm to which the platforms are joined, wherein the first arm comprises a first actuator, a first supporting 10 arm influenced by the first actuator and displaceable along a first path, and a first linkage, the second arm comprises a second actuator, a second supporting arm influenced by the second actuator and displaceable along a second path, and a second linkage, and the third arm comprises a third 15 actuator, a third supporting arm influenced by the third actuator and displaceable along a third path, and a third linkage, characterized in that the first and third paths are arranged parallel and that the second supporting arm is freely journalled around a transverse axis that is substan-20 tially arranged at right angles to the second path.
- 7. A method for manufacturing an industrial robot, with which an object is moved in space, comprising providing the industrial robot with a stationary platform, a movable platform adapted for supporting the object, and a first, a 25 second and a third arm to which the platforms are joined, wherein the first arm is brought to comprise a first actuator, a first supporting arm influenced by the first actuator and rotatable around a first axis, and a first link-30 age, the second arm is brought to comprise a second actuator, a second supporting arm influenced by the second actuator and rotatable around a second axis, and a second linkage, and the third arm is brought to comprise a third actuator, a third supporting arm influenced by the third 35 actuator and rotatable around a third axis, and a third linkage, characterized in that the first and third axes are arranged parallel and that the second supporting arm is

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arranged freely journalled around a transverse axis that is substantially arranged at right angles to the second axis.

8. Use of an industrial robot according to claims 1-6, or a method according to claim 7 during laser cutting.